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PATENT
Attorney Docket No.: 040092-020010US
Client Reference No.: 80PC3656

On AUGUST 26, 2003

TOWNSEND and TOWNSEND and CREW LLP

By: Nicola M. Burke
Nicola M. Burke

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Erik Lier, et al.

Application No.: 10/625,810

Filed: July 22, 2003

For: PARTLY INTERLEAVED
PHASED ARRAYS WITH DIFFERENT
ANTENNA ELEMENTS IN CENTRAL
AND OUTER REGION

Examiner: Not yet known

Art Unit:

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

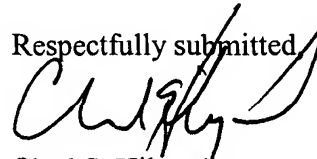
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement.

However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted



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60021857 v1



PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Page 1 of 3

Complete if Known

Application Number	10/625,810
Filing Date	July 22, 2003
First Named Inventor	Lier, Erik, et. al.
Art Unit	
Examiner Name	Not yet known
Attorney Docket Number	040092-020010US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	US-2,786,133	03-19-1957	Dyke	
	AB	US-2,951,152	08-30-1960	Sichak et al.	
	AC	US-4,885,589	12-05-1989	Edward et al.	
	AD	US-4,939,527	07-03-1990	Lamberty et al.	
	AE	US-5,017,927	05-21-1991	Agrawal et al.	
	AF	US-5,291,475	03-01-1994	Bruckert	
	AG	US-5,345,603	09-06-1994	Laffont	
	AH	US-5,394,561	02-28-1995	Freeburg	
	AI	US-5,459,474	10-17-1995	Mattioli et al.	
	AJ	US-5,572,219	11-05-1996	Silverstein et al.	
	AK	US-5,663,736	09-02-1997	Webb et al.	
	AL	US-5,666,128	09-09-1997	Murray et al.	
	AM	US-5,675,343	10-07-1997	Champeau	
	AN	US-5,708,969	01-13-1998	Kotzin et al.	
	AO	US-5,734,983	03-31-1998	Faruque	
	AP	US-5,740,536	04-14-1998	Benveniste	
	AQ	US-5,768,266	06-16-1998	Thompson et al.	
	AR	US-5,790,070	08-04-1998	Natarajan et al.	
	AS	US-5,790,071	08-04-1998	Silverstein et al.	
	AT	US-5,870,063	02-09-1999	Cherrette et al.	
	AU	US-5,927,654	07-27-1999	Foley et al.	
	AV	US-6,002,360	12-14-1999	Wolcott et al.	
	AW	US-6,043,776	03-28-2000	Chiba et al.	
	AX	US-6,084,545	07-04-2000	Lier et al.	
	AY	US-6,112,094	08-29-2000	Dent	
	AZ	US-6,157,621	12-05-2000	Brown et al.	
	BA	US-6,163,296	12-19-2000	Lier et al.	
	BB	US-6,172,655	01-09-2001	Volman	
	BC	US-6,232,920	05-15-2001	Brookner et al.	
	BD	US-6,239,762	05-29-2001	Lier	
	BE	US-6,246,364	06-12-2001	Rao et al.	
	BF	US-6,362,780	03-26-2002	Butz et al.	
	BG	US-6,366,238	04-02-2002	DeMore et al.	
	BH	US-6,377,561	04-23-2002	Black et al.	

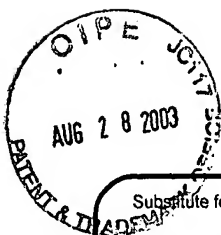
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Page 2 of 3

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Examiner Name	Not yet known
Attorney Docket Number	040092-020010US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	BI	US-6,407,722	06-18-2002	Bogner et al.	
	BJ	US-6,411,256	06-25-2002	Lier et al.	
	BK	US-6,507,315	01-14-2003	Purdy et al.	
	BL	US-6,522,643	02-18-2003	Jacomb-Hood et al.	
	BM	US-2001/0034206	10-25-2001	Thompson et al.	
	BN	US-2002/0171583	11-21-2002	Purdy et al.	
	BO	US-2002/0171585	11-21-2002	Eiges	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	BP	EP	0276817					<input type="checkbox"/>
	BQ	EP	0798209					<input type="checkbox"/>
	BR	GB	2251360					<input type="checkbox"/>
	BS	JP	0248124					<input type="checkbox"/>
	BT	WO	00/07307					<input type="checkbox"/>

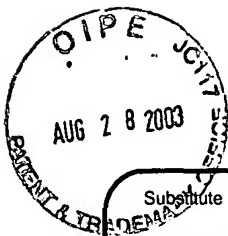
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Examiner Name	Not yet known
Attorney Docket Number	040092-020010US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BU	KILGUS, Dr. C.C., Spacecraft and Ground Station Applications of the Resonant Quadrifilar Helix, IEEE International Conference, 1974, pp. 75-77.	
	BV	KILGUS, Dr. C.C., Resonant Quadrifilar Helix Design, The Microwave Journal, Dec. 1970, pp. 49-54.	
	BW	HALL, P.S. et al., Review of Radio Frequency Beamforming Techniques for Scanned and Multiple Beam Antennas, IEEE Proceedings Part H, Oct. 1, 1990, pp. 293-303, Vol. 137, No. 5.	

Examiner Signature		Date Considered	
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/625,810
	Filing Date	July 22, 2003
	First Named Inventor	Lier, Erik
	Art Unit	
	Examiner Name	Not yet known
Total Number of Pages in This Submission	Attorney Docket Number	040092-020010US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard, copy of forty-nine (49) cited references
Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Townsend and Townsend and Crew LLP Chad S. Hilyard Reg. No. 40,647
Signature	
Date	August 26, 2003

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Typed or printed name	Nicole M. Burke		
Signature		Date	August 26, 2003

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